

RAW SEQUENCE LISTING

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Application Serial Number: 10/530,658
Source: IFWP
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IFWP

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DATE: 08/04/2006

PATENT APPLICATION: US/10/530,658

TIME: 12:32:29

Input Set : A:\10050625.APP

Output Set: N:\CRF4\08042006\J530658.raw

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3 <110> APPLICANT: FOTI, MARIA
4   LOHMER, STEFAN
6 <120> TITLE OF INVENTION: PHOTOPROTEIN WITH IMPROVED BIOLUMINESCENCE
8 <130> FILE REFERENCE: 100506-00025
10 <140> CURRENT APPLICATION NUMBER: 10/530,658
11 <141> CURRENT FILING DATE: 2005-04-07
13 <150> PRIOR APPLICATION NUMBER: PCT/EP03/011626
14 <151> PRIOR FILING DATE: 2003-10-21
16 <150> PRIOR APPLICATION NUMBER: EP 02023452.2
17 <151> PRIOR FILING DATE: 2002-10-21
19 <160> NUMBER OF SEQ ID NOS: 9
21 <170> SOFTWARE: PatentIn Ver. 3.3
23 <210> SEQ ID NO: 1
24 <211> LENGTH: 662
25 <212> TYPE: DNA
26 <213> ORGANISM: Obelia longissima
28 <400> SEQUENCE: 1
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30 aatgtcttca aaatacgagc ttaaaactcaa gactgacttt gataatccac gatggatcaa 120
31 aagacacaag cacatgtttg atttcctcga catcaatgga aatggaaaaa tcaccctcga 180
32 tgaaattgtg tccaaggcat ctgatgacat atgtgccaaag ctggaagcca caccagaaca 240
33 aacaaaacgc catcaagttt gtgttgaaagc tttctttaga ggatgtggaa tggaatatgg 300
34 taaagaaatt gccttcccac aattcctcga tggatggaaa caattggcga cttcagaact 360
35 caagaaatgg gcaagaaacg aacctactct cattcgtgaa tggggagatg ctgtctttga 420
36 tattttcgac aaagatggaa gtggtacaat cactttggac gaatggaaaag cttatggaaa 480
37 aatctctggt atctctccat cacaagaaga ttgtgaagcg acatttcgac attgcgattt 540
38 ggacaacagt ggtgaccttg atgttgacga gatgacaaga caacatcttg gattctggta 600
39 cactttggac ccagaagctg atggtctcta tggcaacgga gttccctaag ctttttttcg 660
40 aa 662
43 <210> SEQ ID NO: 2
44 <211> LENGTH: 195
45 <212> TYPE: PRT
46 <213> ORGANISM: Obelia longissima
48 <400> SEQUENCE: 2
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50 1 5 10 15
52 Arg Trp Ile Lys Arg His Lys His Met Phe Asp Phe Leu Asp Ile Asn
53 20 25 30
55 Gly Asn Gly Lys Ile Thr Leu Asp Glu Ile Val Ser Lys Ala Ser Asp
56 35 40 45
58 Asp Ile Cys Ala Lys Leu Glu Ala Thr Pro Glu Gln Thr Lys Arg His
59 50 55 60
61 Gln Val Cys Val Glu Ala Phe Arg Gly Cys Gly Met Glu Tyr Gly

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62 65          70          75          80
64 Lys Glu Ile Ala Phe Pro Gln Phe Leu Asp Gly Trp Lys Gln Leu Ala
65          85          90          95
67 Thr Ser Glu Leu Lys Lys Trp Ala Arg Asn Glu Pro Thr Leu Ile Arg
68          100          105          110
70 Glu Trp Gly Asp Ala Val Phe Asp Ile Phe Asp Lys Asp Gly Ser Gly
71          115          120          125
73 Thr Ile Thr Leu Asp Glu Trp Lys Ala Tyr Gly Lys Ile Ser Gly Ile
74          130          135          140
76 Ser Pro Ser Gln Glu Asp Cys Glu Ala Thr Phe Arg His Cys Asp Leu
77 145          150          155          160
79 Asp Asn Ser Gly Asp Leu Asp Val Asp Glu Met Thr Arg Gln His Leu
80          165          170          175
82 Gly Phe Trp Tyr Thr Leu Asp Pro Glu Ala Asp Gly Leu Tyr Gly Asn
83          180          185          190
85 Gly Val Pro
86          195
89 <210> SEQ ID NO: 3
90 <211> LENGTH: 195
91 <212> TYPE: PRT
92 <213> ORGANISM: Artificial Sequence
94 <220> FEATURE:
95 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
96     chimeric protein sequence
98 <400> SEQUENCE: 3
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100 1          5          10          15
102 Arg Trp Ile Lys Arg His Lys His Met Phe Asp Phe Leu Asp Ile Asn
103          20          25          30
105 Gly Asn Gly Lys Ile Thr Leu Asp Glu Ile Val Ser Lys Ala Ser Asp
106          35          40          45
108 Asp Ile Cys Ala Lys Leu Gly Ala Thr Pro Glu Gln Thr Lys Arg His
109          50          55          60
111 Gln Asp Ala Val Glu Ala Phe Phe Lys Lys Ile Gly Met Asp Tyr Gly
112 65          70          75          80
114 Lys Glu Val Glu Phe Pro Ala Phe Val Asp Gly Trp Lys Glu Leu Ala
115          85          90          95
117 Thr Ser Glu Leu Lys Lys Trp Ala Arg Asn Glu Pro Thr Leu Ile Arg
118          100          105          110
120 Glu Trp Gly Asp Ala Val Phe Asp Ile Phe Asp Lys Asp Gly Ser Gly
121          115          120          125
123 Thr Ile Thr Leu Asp Glu Trp Lys Ala Tyr Gly Lys Ile Ser Gly Ile
124          130          135          140
126 Ser Pro Ser Gln Glu Asp Cys Glu Ala Thr Phe Arg His Cys Asp Leu
127 145          150          155          160
129 Asp Asn Ser Gly Asp Leu Asp Val Asp Glu Met Thr Arg Gln His Leu
130          165          170          175
132 Gly Phe Trp Tyr Thr Leu Asp Pro Glu Ala Asp Gly Leu Tyr Gly Asn
133          180          185          190

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135 Gly Val Pro
136      195
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142 <213> ORGANISM: Artificial Sequence
144 <220> FEATURE:
145 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
146      chimeric nucleotide sequence
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149 ggatccgccg ccatgtcttc aaaatacgca gttaaactca agactgactt tgataatcca 60
150 cgatggatca aaagacacaa gcacatgttt gatttcctcg acatcaatgg aaatggaaaa 120
151 atcacctcgc atgaaattgt gtccaaggca tctgatgaca tatgcgccaa acttggagca 180
152 acaccagaac agaccaaacg tcaccaggat gctgtcgaag ctttcttcaa aaagattggg 240
153 atggattatg gtaaagaagt cgaattccca gcttttgttg atggatggaa agaattggcg 300
154 acttcagaac tcaagaaatg ggcaagaaac gaacctactc tcattcgtga atggggagat 360
155 gctgtctttg atattttcga caaagatgga agtggtaaaa tcactttgga cgaatggaaa 420
156 gcttatggaa aaatctctgg tatctctcca tcacaagaag attgtgaagc gacatttcga 480
157 cattgcgatt tggacaacag tggtgacctt gatgttgacg agatgacaag acaacatctt 540
158 ggattctggt acactttgga ccagaagct gatggtctct atggcaacgg agttccctaa 600
161 <210> SEQ ID NO: 5
162 <211> LENGTH: 607
163 <212> TYPE: DNA
164 <213> ORGANISM: Artificial Sequence
166 <220> FEATURE:
167 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
168      chimeric nucleotide sequence
170 <400> SEQUENCE: 5
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172 cgatggatca aaagacacaa gcacatgttt gatttcctcg acatcaatgg aaatggaaaa 120
173 atcacctcgc atgaaattgt gtccaaggca tctgatgaca tctgcgccaa actgggagca 180
174 acaccagaac agaccaaacg gcaccaggat gctgtcgaag ctttcttcaa aaagattggg 240
175 atggattatg gtaaagaagt cgaattccca gcttttgttg atggatggaa agaattggcg 300
176 acttcagaac tcaagaaatg ggcaagaaac gaacctactc tcattcgtga atggggagat 360
177 gctgtctttg atattttcga caaagatgga agtggtaaaa tcactttgga cgaatggaaa 420
178 gcttatggaa aaatctctgg tatctctcca tcacaagaag attgtgaagc gacatttcga 480
179 cattgcgatt tggacaacag tggcgacctg gatgttgact agatgacaag acaacatctt 540
180 ggattctggt acactttgga ccagaagct gatggcctct atggcaacgg agttccctaa 600
181 gaattcc                                     607
184 <210> SEQ ID NO: 6
185 <211> LENGTH: 70
186 <212> TYPE: DNA
187 <213> ORGANISM: Artificial Sequence
189 <220> FEATURE:
190 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
191      primer
193 <400> SEQUENCE: 6
194 tatgcgccaa acttggagca acaccagaac agaccaaacg tcaccaggat gctgtcgaag 60
195 ctttcttcaa                                     70

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198 <210> SEQ ID NO: 7
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204 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
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207 <400> SEQUENCE: 7
208 tttttgaaga aagcttcgac agcatcctgg tgacgtttgg tctgttctgg tgttgctcca 60
209 agtttggcgc a                                     71
212 <210> SEQ ID NO: 8
213 <211> LENGTH: 62
214 <212> TYPE: DNA
215 <213> ORGANISM: Artificial Sequence
217 <220> FEATURE:
218 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
219     primer
221 <400> SEQUENCE: 8
222 aaagattggt atggattatg gtaaagaagt cgaattccca gcttttggtg atggatggaa 60
223 ag                                             62
226 <210> SEQ ID NO: 9
227 <211> LENGTH: 63
228 <212> TYPE: DNA
229 <213> ORGANISM: Artificial Sequence
231 <220> FEATURE:
232 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
233     primer
235 <400> SEQUENCE: 9
236 aattctttcc atccatcaac aaaagctggg aattcgactt ctttaccata atccatacca 60
237 atc                                             63

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VERIFICATION SUMMARY

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